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Version: 'V04-000'

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AUTHOR BRIAN PORTER

CREATION DATE 3-FEB-1979

Functional description:

This module is called to display UBA interrupts.

Modified by:

V03-004 SAR0160 Sharon A. Reynolds, 13-Oct-1983 Added an SYE update that makes the register heralds generic.

V03-003 SAR0103 Sharon A. Reynolds, 20-Jun-1983 Changed the carriage control in the 'format' statements for use with ERF.

V03-002 SAR0054 Sharon A. Reynolds, 13-Jun-1983 Removed brief/cryptic support.

v03-001 BP0001 Brian Porter, 20-AUG-1982 Minor edit.

Subroutine UBA_INTERRUPTS (lun,option) include 'src\$:msghdr.for /nolist'

byte

lun

```
M 14
16-Sep-1984 00:17:44
5-Sep-1984 14:24:33
                                                                                                                   VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]UBAINT.FOR; 1
UBA_INTERRUPTS
                                                                                                                                                                  Page
character*1
                                          option
                     if (
1 lib$extzv(24,8,emb$l_hd_sid) .eq. 255
                                                                                    ! 11/780
                       .or.
lib$extzv(24,8,emb$l_hd_sid) .eq. 1
                                                                                    ! 11/780's
                       .or.
lib$extzv(24,8,emb$l_hd_sid) .eq. 4
                                                                                    ! 11/7XX
                     1) then
                     if (option .eq. 'S') then
                     call dw780_interrupt (lun)
endif
           C
                     for additional UBA support the ELSE-IF-THEN should be expanded
           C
                     at this point.
                     endif
                     return
                     end
PROGRAM SECTIONS
     Name
                                                                Attributes
                                                     Bytes
                                                                PIC CON REL LCL SHR EXE PIC CON REL LCL SHR NOEXE PIC CON REL LCL NOSHR NOEXE PIC OVR REL GBL SHR NOEXE
                                                                                                       RD NOWRT LONG
   O SCODE
                                                        32
512
     SPDATA
   2 SLO
     $LOCAL
                                                                                                       RD
                                                                                                              WRT LONG
                                                                                                              WRT LONG
     Total Space Allocated
                                                        632
ENTRY POINTS
     Address Type Name
  0-00000000
                         UBA_INTERRUPTS
VARIABLES
     Address Type Name
                                                                        Address Type Name
 3-00000000 I+4 EMB$L_HD_SID
3-0000000E I+2 EMB$W_HD_ERRSEQ
AP-00000008@ CHAR OPTION
                                                                    3-00000004 I+2 EMB$W_HD_ENTRY
AP-00000004a L+1 LUN
```

UBA_INTERRUPTS

N 14 16-Sep-1984 00:17:44 VAX-11 FORTRAN V3.4-56 5-Sep-1984 14:24:33 VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER:[ERF.SRC]UBAINT.FOR;1

ARRAYS

Address Type Name

Bytes Dimensions

3-00000000 L*1 EMB 3-00000006 I*4 EMB\$Q_HD_TIME

512 (0:511)

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name

Type Name

DW780_INTERRUPT

I*4 LIBSEXTZV

```
BYTE
                                                                                               LUN
  INTEGER*4
                                                                                             FIELD
COMPRESS4
UBA_CSR
UBA_CR
UBA_SR
UBA_DCR
UBA_FMER
UBA_FUBAR
ADAPTER_TR
ERROR_PC
ERROR_PSL
   logical*1
                                                                                               diagnostic_mode
                                                                                             (EMB(16), UBA_CSR)
(EMB(20), UBA_CR)
(EMB(24), UBA_SR)
(EMB(28), UBA_DCR)
(EMB(32), UBA_FMER)
(EMB(36), UBA_FUBAR)
(EMB(40), ADAPTER_TR)
(EMB(44), ERROR_PC)
(EMB(48), ERROR_PSL)
EQUIVALENCE
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                                              ER*31 V1UBACR(0:6)
V1UBACR(0) /'AD/
V1UBACR(1) /'UN1
V1UBACR(2) /'COM
V1UBACR(3) /'SB1
V1UBACR(4) /'UN1
V1UBACR(5) /'BR
V1UBACR(6) /'IN1
  CHARACTER*31
                                                                                                                                          /'ADAPTER INIT*'/
/'UNIBUS POWER FAIL*'/
/'CONFIGURATION INTERRUPT ENABLE*'/
/'SBI TO UNIBUS ERROR INT ENABLE*'/
/'UNIBUS TO SBI ERROR INT ENABLE*'/
/'BR INTERRUPT ENABLE*'/
/'INTERRUPT FIELD SWITCH*'/
  DATA
  DATA
  DATA
  DATA
  DATA
  DATA
  DATA
CHARACTER*25 V1UBASR(0:10)
DATA V1UBASR(0) /'UNIE
DATA V1UBASR(1) /'UNIE
DATA V1UBASR(2) /'LOST
DATA V1UBASR(3) /'MAP
DATA V1UBASR(4) /'INVA
DATA V1UBASR(5) /'DATA
DATA V1UBASR(6) /'COMP
DATA V1UBASR(7) /'COMP
DATA V1UBASR(8) /'CORP
DATA V1UBASR(9) /'READ
DATA V1UBASR(10) /'READ
                                                                                                                                          (0:10)
/'UNIBUS ''SSYN'' TIMEOUT*'/
/'UNIBUS SELECT TIMEOUT*'/
/'LOST ERROR*'/
/'MAP REGISTER PARITY FAIL*'/
/'INVALID MAP REGISTER*'/
/'DATA PATH PARITY ERROR*'/
/'COMMAND TRANSMIT TIMEOUT*'/
/'COMMAND TRANSMIT ERROR*'/
/'CORRECTED READ DATA*'/
/'READ DATA SUBSTITUTE*'/
/'READ DATA TIMEOUT*'/
   DATA
                                                   V1UBASR(10)
```

SUBROUTINE DW780_INTERRUPT (LUN)

INCLUDE 'SRC\$: MSGHDR.FOR /NOLIST'

```
DW780_INTERRUPT
                                                                                  16-Sep-1984 00:17:44
5-Sep-1984 14:24:33
WRITE(LUN, 20) FIELD FORMAT(' ', T40, 'MAPS O. THRU ', I < COMPRESS4 (FIELD) >, '. DISABLED')
           20
                     ENDIF
                     endif
                     CALL LINCHK (LUN,1)
                     WRITE(LUN, 25) UBA SR
FORMAT(' , 18, ''DW'' SR', 124, 28.8)
          25
                     if (.not. diagnostic_mode) then
                     CALL OUTPUT (LUN, UBA_SR, V1UBASR, 0, 0, 10, '0')
                     DO 35.1 = 24.27
                     IF (JIAND (UBA_SR, 2**I) .NE. 0) THEN
                     CALL LINCHK (LUN, 1)
                    WRITE(LUN, 30) I - 20
FORMAT(' , T40, 'BRRVR ', I1, '. FULL')
          30
                     ENDIF
          35
                     CONTINUE
                     endif
                    CALL LINCHK (LUN, 1)
                    WRITE(LUN,40) UBA DCR
FORMAT(' ,18,''DW' DCR',124,28.8)
          40
                    if (diagnostic_mode) then
                    CALL LINCHK (LUN, 1)
                    WRITE(LUN,45)
FORMAT(' ,T40,'DIAGNOSTIC MODE')
          45
                     endif
                    CALL LINCHK (LUN, 1)
                    WRITE(LUN,50) UBA FMER
FORMAT(', T8, ''DW' FMER', T24, Z8.8)
          50
                    if (.not. diagnostic_mode) then
                    IF (JIAND (UBA_SR, '000006F8'X) .NE. 0) THEN
                    FIELD = LIBSEXTZV(0,9,UBA_FMER)
                    CALL LINCHK (LUN, 1)
                    WRITE(LUN, 55) FIELD FORMAT(' , T40, 'SELECTED MAP = ', I < COMPRESS4 (FIELD) >, '.')
          55
                     END!F
                     endif
```

VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER: [ERF.SRC]UBAINT.FOR; 1

Page

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```
E 15
16-Sep-1984 00:17:44
5-Sep-1984 14:24:33
 DW780_INTERRUPT
                                                                                                                                                                                                                                                                                                                                                                                          VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]UBAINT.FOR; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Page
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                                                                      CALL LINCHK (LUN.1)
                                                                     WRITE(LUN,60) UBA FUBAR
FORMAT(', T8,''DW'' FUBAR', T24, Z8.8)
                                   60
                                                                      if (.not. diagnostic_mode) then
                                                                      IF (JIAND (UBA_SR, '00000003'X) .NE. 0) THEN
                                                                     FIELD = JISHFT(JIAND(UBA_FUBAR, '0000FFFE'X),-1)
                                                                      CALL LINCHK (LUN,1)
                                                                     WRITE(LUN,65) FIELD FORMAT(' ',T40, 'UNIBUS ADDRESS = ',05.5,'X (OCTAL)')
                                   65
                                                                      ENDIF
                                                                      endif
                                                                     RETURN
                                                                     END
PROGRAM SECTIONS
                 Name
                                                                                                                                                                                 Bytes
                                                                                                                                                                                                                   Attributes
                                                                                                                                                                                                                  PIC CON REL LCL SHR EXE PIC CON REL LCL SHR NOEXE PIC CON REL LCL NOSHR NOEXE PIC OVR REL GBL SHR NOEXE
         O SCODE
                                                                                                                                                                                                                                                                                                                                                                NOWRT LONG
                SPDATA
                                                                                                                                                                                                                                                                                                                                                    RD
                                                                                                                                                                                                                                                                                                                                                                NOWRT LONG
         2 SLOCAL
3 EMB
                                                                                                                                                                                                                                                                                                                                                    RD
                                                                                                                                                                                                                                                                                                                                                                         WRT LONG
                                                                                                                                                                                                                                                                                                                                                                         WRT LONG
                  Total Space Allocated
                                                                                                                                                                                     2686
ENTRY POINTS
                 Address Type Name
        0-00000000
                                                                                  DW780_INTERRUPT
VARIABLES
                  Address Type
                                                                                                                                                                                                                                             Address Type
                                                                                                                                                                                                                                                                                                           Name
                                                                                                                                                                                                                               2-000001EC L*1

3-00000004 I*2

3-0000002C I*4

2-000001F0 I*4

AP-00000004a L*1

3-00000014 I*4

3-0000001C I*4

3-00000024 I*4
                                                                                  ADAPTER TR
EMB$L_HD_SID
EMB$W_HD_ERRSEQ
ERROR_PSC
              -00000028
                                                                                                                                                                                                                                                                                                              DIAGNOSTIC_MODE
              -00000000
-0000000E
-00000030
                                                                                                                                                                                                                                                                                                            EMBSW_HD_ENTRY
                                                              I * 4
I * 2
I * 4
                                                                                                                                                                                                                                                                                                            FIELD
         2-000001F4
2-000001ED
3-00000010
3-00000018
                                                               1+4
                                                                                                                                                                                                                                                                                                             LUN
                                                                                                                                                                                                                                                                                                           UBA_CR
UBA_DCR
UBA_FUBAR
                                                              CHAR
                                                                                  TR
                                                                                UBA_CSR
UBA_FMER
UBA_SR
                                                              1+4
```

Run Time: 4.00 seconds Elapsed Time: 10.42 seconds

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